

FILE 'HOME' ENTERED AT 12:40:15 ON 15 NOV 2002)

FILE 'BIOSIS, CAPLUS, SCISEARCH, LIFESCI, EMBASE' ENTERED AT 12:41:31 ON
15 NOV 2002

L1	89 S INVERSE TRANSITION
L2	0 S L1 (A) PROTEIN PURIFICATION
L3	8 S L1 AND PROTEIN
L4	4 DUPLICATE REMOVE L3 (4 DUPLICATES REMOVED)

FILE 'USPATFULL, EUROPATFULL, JAPIO, PATOSWO, CANCERLIT' ENTERED AT
12:48:14 ON 15 NOV 2002

L5	7 S L3
L6	7 DUPLICATE REMOVE L5 (0 DUPLICATES REMOVED)

NSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

DUPLICATE 1

AN 2002:76708 CAPLUS

DN 136:258915

TI Photomediated Solid-State Cross-Linking of an Elastin-Mimetic Recombinant
Protein Polymer

AU Nagapudi, Karthik; Brinkman, William T.; Leisen, Johannes E.; Huang, Lei;
McMillan, R. Andrew; Apkarian, Robert P.; Conticello, Vincent P.;

Chaikof,

Elliot L.

CS Departments of Surgery, Bioengineering, and Chemistry, Emory University,
Atlanta, GA, 30322, USA

SO Macromolecules (2002), 35(5), 1730-1737

CODEN: MAMOBX; ISSN: 0024-9297

PB American Chemical Society

DT Journal

LA English

RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 2002:75449 CAPLUS

DN 137:165594

TI **Protein** purification by **inverse transition**
cycling

AU Meyer, Dan E.; Chilkoti, Ashutosh

CS Department of Biomedical Engineering, Duke University, Durham, NC, 27708,
USA

SO Protein-Protein Interactions (2002), 329-343. Editor(s): Golemis, Erica.
Publisher: Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y.

CODEN: 69CFYI; ISBN: 0-87969-628-1

DT Conference; General Review

LA English

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

DUPLICATE 2

AN 1999:720943 CAPLUS

DN 132:77626

TI Purification of recombinant proteins by fusion with thermally-responsive
polypeptides

AU Meyer, Dan E.; Chilkoti, Ashutosh

CS Department of Biomedical Engineering, Duke University, Durham, NC,
27708-0281, USA

SO Nature Biotechnology (1999), 17(11), 1112-1115

CODEN: NABIF9; ISSN: 1087-0156

PB Nature America

DT Journal

LA English

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1991:626377 CAPLUS

DN 115:226377

TI Phosphorylation and dephosphorylation modulation of an inverse
temperature
transition

AU Pattanaik, Asima; Gowda, D. Channe; Urry, Dan W.

CS Sch. Med., Univ. Alabama, Birmingham, AL, 35294-0019, USA

SO Biochemical and Biophysical Research Communications (1991), 178(2),
539-45

CODEN: BBRC A9; ISSN: 0006-291X

DT Journal
LA English

AN 2002:75449 CAPLUS

DN 137:165594

TI **Protein** purification by **inverse transition**
cycling

AU Meyer, Dan E.; Chilkoti, Ashutosh

CS Department of Biomedical Engineering, Duke University, Durham, NC, 27708,
USA

SO Protein-Protein Interactions (2002), 329-343. Editor(s): Golemis, Erica.
Publisher: Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y.
CODEN: 69CFYI; ISBN: 0-87969-628-1

DT Conference; General Review

LA English

CC 9-0 (Biochemical Methods)

AB A review on purifn. of recombinant target proteins from cell lysate after
using elastin like polypeptides (ELP) fusion tags and **inverse**
transition cycling (ITC). ITC provides substantial savings in
time and expense by eliminating traditional chromatog. purifn. method.
Furthermore, it is also useful for wide-ranging biosepn. and applications
following initial purifn. of a recombinant **protein**. ITC is also
useful for the study of **protein**-ligand interactions and forms
the basis for competitive soln. immunoassays. It is flexible enough to
allow optimization for a specific **protein** of interest using
different ELP tags and soln. conditions, yet is general enough to be
useful for high throughput applications involving different proteins with
varied physicochem. properties. Three set of protocols for the fusion of
an ELP moiety to a **protein** of interest, the purifn. of ELP
fusion proteins from cell lysate, and the general transition cycling of

EP fusion proteins are described.

ST review **protein** purifn **inverse transition**
cycling

IT Cell

ANSWER 1 OF 7 USPATFULL

AN 2001:188418 USPATFULL
TI Fusion peptides isolatable by phase transition
IN Chilkoti, Ashutosh, Durham, NC, United States
PI US 2001034050 A1 20011025
AI US 2001-812382 A1 20010320 (9)
PRAI US 2000-190659P 20000320 (60)
DT Utility
FS APPLICATION
LREP INTELLECTUAL PROPERTY / TECHNOLOGY LAW, PO BOX 14329, RESEARCH TRIANGLE
PARK, NC, 27709
CLMN Number of Claims: 65
ECL Exemplary Claim: 1
DRWN 30 Drawing Page(s)
LN.CNT 2792
CAS INDEXING IS AVAILABLE FOR THIS PATENT.